

## PROJECT DESCRIPTION

### GENERAL

THIS PROJECT INVOLVES THE LOOP REPLACEMENT AT THE INTERSECTION OF MD 85 AT GROVE RD IN FREDERICK COUNTY. MD 85 IS ASSUMED TO RUN IN A NORTH/SOUTH DIRECTION.

### INTERSECTION OPERATION

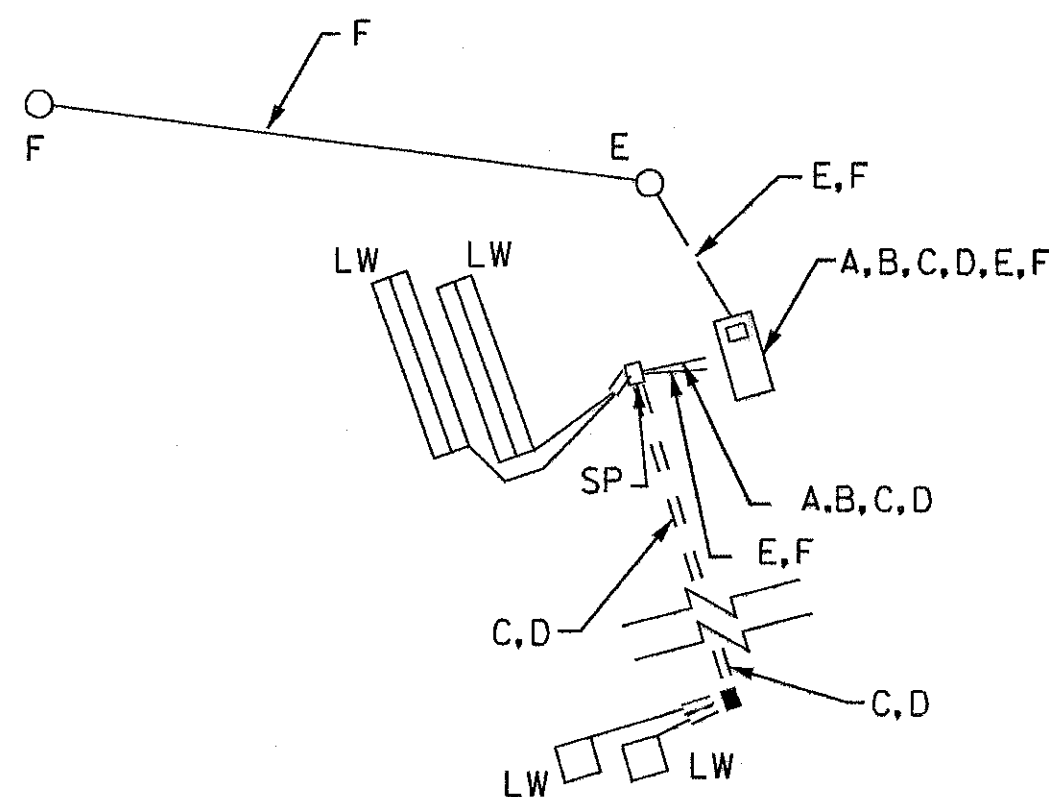
#### NORMAL OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA-SIX-PHASE FULLY ACTUATED MODE. THE MOVEMENTS ON GROVE RD WILL OPERATE CONCURRENTLY WITH AN ACTUATED PEDESTRIAN PHASE ACROSS BOTH NORTH AND SOUTHBOUND LANES OF MD 85. MD 85 MOVEMENTS WILL OPERATE CONCURRENTLY.

### SPECIAL NOTE

ALL UTILITIES SHOWN ON THESE PLANS ARE SCHEMATIC AND ARE NOT TO BE CONSIDERED COMPLETE BECAUSE THESE UTILITIES MAY BE MODIFIED PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION SO THAT ALL UTILITIES MAY BE LOCATED IN THE FIELD. IF THE CONTRACTOR PERCEIVES THAT A CONFLICT BETWEEN THE UTILITIES AND THE TRAFFIC SIGNAL EQUIPMENT WILL OCCUR, THE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER IMMEDIATELY.

## WIRING DIAGRAM



A,B ELECTRICAL CABLE 2-CONDUCTOR  
C,D (ALUMINUM SHIELDED NO.14 AWG)

E,F ELECTRICAL CABLE 2-CONDUCTOR  
(NO.14 AWG)

SP SPLICE ALUMINUM SHIELDED  
CABLE TO EXISTING LOOP WIRE

EF EXISTING OVERHEAD FEED

## EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

NONE

## PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #7 ARE AS FOLLOWS:

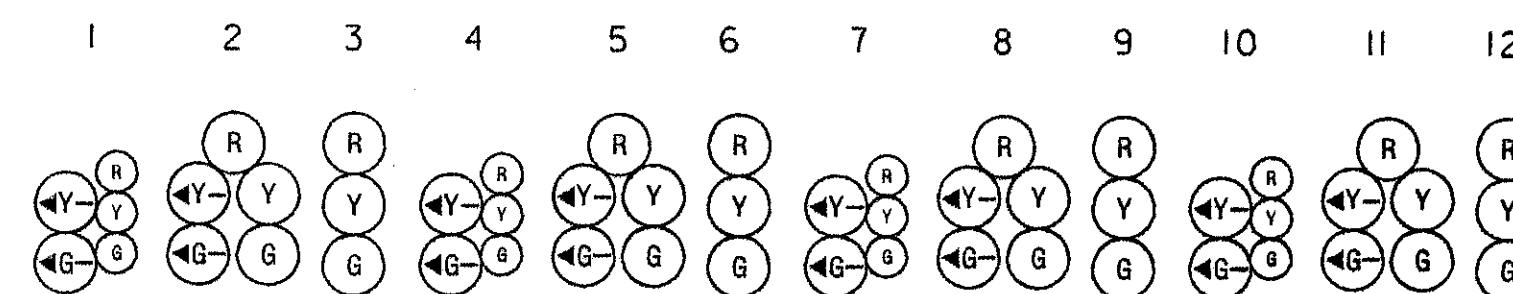
MARK FLACK  
ASSISTANT DISTRICT ENGINEER-CONSTRUCTION  
PHONE: 301-624-8201

DAVE COYNE  
ASSISTANT DISTRICT ENGINEER-MAINTENANCE  
PHONE: 301-624-8106

JOHN CONCANNON  
ASSISTANT DISTRICT ENGINEER-TRAFFIC  
PHONE: 301-624-8140

JAMES BUCKALEW  
UTILITIES ENGINEER  
PHONE: 301-624-8116

## PHASE CHART



PHASE 1+5	R	R	R	R	R	R	R	R	R	R	R	R	R
THE CONTROLLER MAY SKIP TO PHASES 1+6 OR 2+5 OR 2+6													
PHASE 1+6	G	G	G	R	R	R	R	R	R	R	R	R	R
1 CHANGE	R	R	R	G	G	G	R	R	R	R	R	R	R
PHASE 2+5	R	R	R	G	G	G	R	R	R	R	R	R	R
5 CHANGE	R	R	R	G	G	G	R	R	R	R	R	R	R
PHASE 2+6	G	G	G	R	R	R	R	R	R	R	R	R	R
2+6 CHANGE	Y	Y	Y	Y	Y	Y	R	R	R	R	R	R	R
PHASE 3+7	R	R	R	R	R	R	R	R	R	R	R	R	R
3+7 CHANGE	THE CONTROLLER MAY SKIP TO PHASE 3+8 OR 4+7 OR 4+8												
PHASE 3+8	R	R	R	R	R	R	R	R	R	R	R	R	R
3+8 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4+7	R	R	R	R	R	R	R	R	R	R	R	R	R
4+7 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE 4+8	R	R	R	R	R	R	R	R	R	R	R	R	R
4+8 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R
PHASE ALT 4 & ALT 8	R	R	R	R	R	R	R	R	R	R	R	R	R
PED CLEARANCE	R	R	R	R	R	R	R	R	R	R	R	R	R
ALT 4+ ALT 8 CHANGE	R	R	R	R	R	R	R	R	R	R	R	R	R
FLASHING OPERATION	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL	FL

## EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR

CAT CODE	SPEC.	QUANTITY	DESCRIPTION
NUMBER	SECTION		
585620	556	450 L.F.	12 INCH HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
585624	556	30 L.F.	24 INCH HEAT APPLIED WHITE THERMOPLASTIC PAVEMENT MARKINGS
801605	811	1 EA.	ADJUST EXISTING HANDHOLE
802145	813	2 S.F.	SHEET ALUMINUM SIGN
805135	805	80 L.F.	3 INCH SCHEDULE 80 RIGID PVC CONDUIT-TRENCHED
805160	805	30 L.F.	1 INCH LIQUID TIGHT FLEXIBLE NON METALLIC CONDUIT
811001	811	1 EA.	ELECTRICAL HANDHOLE
861104	810	290 L.F.	ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED NO.14 AWG)
861105	810	270 L.F.	ELECTRICAL CABLE 2-CONDUCTOR (NO.14 AWG)
862101	805	960 L.F.	LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO.14 AWG)
862102	805	285 L.F.	SAW CUT FOR LOOP WIRE
865001	814	2 EA.	PUSHBUTTON AND SIGN
800000		1 L.S.	REMOVE AND DISPOSE OF EXISTING SIGNAL MATERIAL

## EQUIPMENT LIST "C"

C. ALL REMOVED SIGNAL MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR.

NONE

SP-2



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION

### GENERAL INFORMATION SHEET MD 85 AT GROVE RD

DRAWN BY: JOHN BOLING	F.A.P. NO. N/A	TS NO. 1954F	SHEET NO.
CHECKED BY: D. DODDA	S.H.A. NO. 23855T2507711	T.I.M.S. NO.	32 OF 35
SCALE: NONE	COUNTY: FREDERICK		
DATE: MARCH 8, 1984	LOG MILE:		

THE WILSON T. BALLARD CO.  
CONSULTING ENGINEERS  
OWINGS MILLS, MARYLAND